Important: This model is considered experimental and its accuracy and reliability are not guaranteed. This resource should not be used as the sole resource for decision making.

This model is run twice a day at 14z and 2z, with output for each run generally available 10 hours after the start of the run. Currently, 36 forecast hours are produced. Initial boundary conditions are provided by the NAM12 and thus model output will be heavily influenced by the NAM12 analysis. More information about WRF-EMS can be found here: http://strc.comet.ucar.edu/software/newrems/

Domain & Run Information

Domain Type	: Limited Area
Primary Time Step	: 6.6 Seconds
Grid dimensions	: 118 x 136
Vertical Layers	: 51
Grid Spacing	: 1.33 km
Top of Model Atmosphere	: 50 mb
Nesting Feedback	: Feedback Off

Model Physics

Cumulus Scheme	: Kain-Fritsch
KF Trigger Function	: Moisture Advection
Shallow Cumulus Scheme	: Park and Bretherton
Microphysics Scheme	: Lin et al. 5-Class
PBL Scheme	: MYNN 2.5 level TKE
Gravitational Settling	: No Gravitational Settling
Land Surface Scheme	: Noah 4-Layer LSM
Snow Cover Physics	: New School
Number Land Categories	: 21 (Modis + Lakes)
Number of Soil Categories	: 16
Number Soil Layers	: 4
Long Wave Radiation	: RRTM
Shortwave	: Dudhia
Cloud Effects	: Fractional Cloud Effects
Slope Radiation Effects	: Slope Effects On
Topography Shading	: Shading Effects On
Max Shade Length	: 25 km

ARW Core Model Dynamics

Dynamics	: Non-Hydrostatic
Time-Integration Scheme	: Runge-Kutta 3rd Order
Diffusion Scheme	: Simple Diffusion

6th-order Diffusion	: No 6th-Order Diffusion
Eddy Coefficient	: 2D 1st Order Closure
Damping Option	: No Damping
W Damping	: W Damping On
Horiz Scalar Advection	: 5th Order
Horiz Momentum Advection	: 5th Order
Vert Scalar Advection	: 3rd Order
Vert Momentum Advection	: 3rd Order
Sound Time Step Ratio	: Automatic
Moisture Advection Option	: Positive-Definite
Scalar Advection Option	: Positive-Definite
Momentum Advection Option	: Positive-Definite
TKE Advection Option	: Positive-Definite